



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20240923007.0
Datasheet for AMC3330 and AMC3330-Q1
Information Only**

Date: September 25, 2024

To: MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team
SC Business Services

20240923007.0
Information Only Datasheet
Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

| DEVICE | CUSTOMER PART NUMBER |
|----------------|-----------------------------|
| AMC3330DWE | NULL |
| AMC3330DWER | NULL |
| AMC3330QDWERQ1 | NULL |

Technical details of this Product Change follow on the next page(s).

| | | | |
|--------------------------|--------------------------------------|------------------|--------------------|
| PCN Number: | 20240923007.0 | PCN Date: | September 25, 2024 |
| Title: | Datasheet for AMC3330 and AMC3330-Q1 | | |
| Customer Contact: | Change Management team | Dept: | Quality Services |
| Change Type: | Electrical Specification | | |

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification.

The product datasheet(s) is being updated as summarized below.

The following change history provides further details.



AMC3330

SBASA34B – JUNE 2020 – REVISED AUGUST 2024

| Changes from Revision A (October 2020) to Revision B (August 2024) | Page |
|---|------|
| • Changed reinforced isolation safety-related certification from VDE V 0884-11 to DIN EN IEC 60747-17 (VDE 0884-17) throughout document..... | 1 |
| • Changed <i>Electricity meters to EV charging infrastructure and Protection relays to Battery energy storage systems</i> in last two <i>Applications</i> bullets..... | 1 |
| • Changed <i>Application Example</i> figure..... | 1 |
| • Changed Absolute Maximum Ratings: changed max for DIAG pin from 5.5 V to 6.5 V..... | 4 |
| • Added analog output capacitive and resistive drive capability specification..... | 4 |
| • Updated Barrier capacitance specification from 3.5 pF to 4.5 pF..... | 6 |
| • Changed isolation standard from DIN VDE V 0884-11 (VDE V 0884-11) to DIN EN IEC 60747-17 (VDE 0884-17) and updated the Insulation Specifications and Safety-Related Certifications tables accordingly..... | 7 |
| • THD footnote added..... | 8 |
| • Added DIGITAL OUTPUT (DIAG) electrical specifications..... | 8 |
| • Added VDD _{UV} and VDD _{POR} specifications..... | 8 |
| • Added I _H specification for 4.5 V ≤ VDD ≤ 5.5 V..... | 8 |
| • Deleted duplicate column in <i>Resistor Value Examples</i> table..... | 24 |
| • Changed <i>Differential Input Filter</i> figure..... | 25 |
| • Added high-side and low-side LDO external load discussion to <i>Best Design Practices</i> section..... | 27 |
| • Changed <i>Power Supply Recommendations</i> section: Changed <i>Decoupling the AMC3330</i> figure, added <i>Best Practices to Attenuate AMC3301 Family Radiated Emissions EMI</i> reference and added ferrite bead section to <i>Recommended External Components</i> table..... | 27 |
| • Changed OUTP, OUTN, and VDD routing in <i>Recommended Layout of the AMC3330</i> figure..... | 29 |

| Changes from Revision A (October 2020) to Revision B (September 2024) | Page |
|--|-------------|
| • Changed reinforced isolation safety-related certification from VDE V 0884-11 to DIN EN IEC 60747-17 (VDE 0884-17) throughout document..... | 1 |
| • Added last <i>Applications</i> bullet..... | 1 |
| • Changed <i>Application Example</i> figure..... | 1 |
| • Changed Absolute Maximum Ratings: changed max for DIAG pin from 5.5 V to 6.5 V..... | 4 |
| • Added analog output capacitive and resistive drive capability specification..... | 4 |
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| • Changed <i>Differential Input Filter</i> figure..... | 25 |
| • Added high-side and low-side LDO external load discussion to <i>Best Design Practices</i> section..... | 27 |
| • Changed <i>Power Supply Recommendations</i> section: Changed <i>Decoupling the AMC3330-Q1</i> figure, added <i>Best Practices to Attenuate AMC3301 Family Radiated Emissions EMI</i> reference and added ferrite bead section to <i>Recommended External Components</i> table..... | 27 |
| • Changed OUTP, OUTN, and VDD routing in <i>Recommended Layout of the AMC3330-Q1</i> figure..... | 29 |

The datasheet number will be changing.

| Device Family | Change From: | Change To: |
|---------------|--------------|-----------------|
| AMC3330 | SBASA34A | SBASA34B |
| AMC3330-Q1 | SBASA35A | SBASA35B |

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/AMC3330>

<http://www.ti.com/product/AMC3330-Q1>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device

Changes to product identification resulting from this PCN:

None.

Product Affected:

| | | | |
|------------|-------------|----------------|--|
| AMC3330DWE | AMC3330DWER | AMC3330QDWERQ1 | |
|------------|-------------|----------------|--|

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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